INDEX

MAGNETOHYDRODYNAMICS Volume 9, Numbers 1-4, 1973



MAGNETOHYDRODYNAMICS Volume 9, Numbers 1-4, 1973

(A translation of Magnitnaya Gidrodinamika)

A

Abramovich, G. N. - 15 Al'-Nasan, I. M. - 113

D

Bakanov, Yu. A. - 141, 249 Bam-Zelikovich, G. M. - 147 Baranov, G. A. - 424 Barinberg, A. D. - 498 Bashtovoi, V. G. - 291 Baushev, B. N. - 409 Berkovskii, B. M. - 291, 468 Bertinov, A. I. - 68 Berzin', V. A. - 238 Bibik, E. E. - 58, 309 Birzvalk, Yu. A. - 360, 541 Blum, É. Ya. - 52 Bogdanov, Yu. V. - 541 Boguslavskii, V. A. - 166 Borisov, B. P. - 283, 409 Boyarenko, V. V. - 254, 567 Breev, V. V. - 279

Butsenieks, I. É. - 192, 400 C

Briskman, V. A. - 390 Bugrov, N. S. - 238

Bugyanis, S. A. - 414

Burdujan, I. - 327

Chekin, B. V. - 254, 276, 567 Chesonis, V. I. - 144, 352, 414

D

Demidova, T. V. - 42
Denisov, Yu. N. - 337
Dmitriev, K. I. - 279
Dobychin, E. I. - 128
Donchenko, K. P. - 498
Doronin, V. I. - 412, 567
Dremov, V. V. - 412
Dronnik, L. M. - 141
Dvorchik, S. E. - 249
D'yakov, V. I. - 229
Dzhaugashtin, K. E. - 180

Ю

Éidel'man, E. D. - 437

Eliseikin, S. I. - 254 Él'kin, A. I. - 166 Emets, Yu. P. - 332

F

Fedin, A. G. - 301 Franchuk, G. M. - 204 Frolov, A. N. - 229

G

Gailitis, A. - 445 Gekht, G. M. - 107 Gel'fgat, Yu. M. - 125, 187, 285, 369, 376 Genin, L. G. - 462 Getselev. Z. N. - 552 Glazov, O. A. - 395 Glukhikh, V. A. - 424 Glukhov, V. P. - 428 Gnatyuk, T. A. - 180 Gnatyuk, V. V. - 180 Golodnyak, V. A. - 103 Gorbachev, L. P. - 74, 264, Gorn, R. K. - 91 Gorovits, V. S. - 383 Granik, I. S. - 261 Grigoriadi, A. K. - 332 Grinberg, G. - 417 Gubarev, V. F. - 233, 474 Gudkov, A. L. - 376, 397 Gurevich, L. É. - 437 Gurevich, S. M. - 285 Gurfink, M. M. - 171, 403

F

Hartmann, Ch. - 1

I

Isers, A. B. - 63 Ivanova, I. I. - 273

ĸ

Kagan, I. Ya. - 258 Kalis, Kh. É. - 175 Kapusta, A. B. - 267, 270, 288, 356, 412, 564 Karasev, A. V. - 85 Karyakin, V. E. - 42 Karyakin, Yu. E. - 42 Kas'yanov, V. A. - 209 Katsnel'son, S. S. - 98 Kienko, A. I. - 85 Kirilkin, V. S. - 337 Kirillov, I. R. - 225, 536 Klyavin', Ya. Ya. - 238 Kolpakov, A. Ya. - 15 Kompan, Ya. Yu. - 285 Koneev, S. M.-A. - 68, 507 Kosachevskaya, E. A. - 482, 562 Koshelev. V. A. - 288 Kovalev, L. K. - 68, 507 Kovner, D. S. - 15, 365 Krasil'nikov, E. Yu. - 409 Krivonishchenko, I. A. - 390 Kropachev, G. P. - 390 Kulandin, A. A. - 337 Kuznetskii, R. S. - 548 Kuznetsov, S. E. - 155

T.

Lavrent'ev, I. V. - 225 Legeida, V. I. - 132 Levin, M. N. - 141 Litvinova, T. S. - 356 Lushchik, V. G. - 15, 409

N

Makarevich, V. K. - 141, 249
Makarov, A. M. - 48, 135
Manchkha, S. P. - 462
Manoilova, O. N. - 530
Marinov, V. G. - 424
Markov, A. V. - 238
Martinson, L. K. - 48, 135, 261
Martynov, G. I. - 552
Matygullin, B. Ya. - 58
Merkulov, V. I. - 31, 36
Mezentseva, N. I. - 555
Mikel'son, A. É. - 285, 347
Mikirtichev, A. A. - 214
Mishchenko, N. M. - 288

Mkhitaryan, A. A. - 209 Mozgovoi, E. N. - 52

N

Nadezhnikov, N. M. - 243, 360 Nikitin, N. V. - 264, 405 Nikolaenko, V. S. - 409 Noskov, N. N. - 322 Nosovitskaya, I. B. - 267, 270, 564 Novikov, Yu. K. - 285

0

Oleinik, V. G. - 498 Ol'shanskii, S. V. - 187, 369 Orlanov, V. I. - 209 Orlov, L. P. - 468

P

Panasyuk, L. S. - 347 Panevin, I. G. - 409 Parolya, V. A. - 541 Paslavskii, E. S. - 233, 474 Pavlov, K. B. - 197 Peterson, D. E. - 125 Petrazhitskii, A. S. - 243, 360 Petrovicha, R. A. - 566 Pleshanov, A. S. - 119, 122 Poberezhskii, L. P. - 522 Polishchuk, V. P. - 91, 283, 422 Poltavets, V. N. - 68 Poluéktov, A. P. - 403 Popov, V. I. - 138 Potanin, E. P. - 264 Povkh, I. L. - 288 Puzhailov, L. P. - 283

R

Raikher, Yu. L. - 58 Rashchepkin, A. P. - 332, 515 Repeshko, I. S. - 288 Reshet'ko, L. M. - 141 Romanovskii, M. R. - 135 Romanovskii, V. R. - 48 Rotmistrovskii, B. M. - 288 Rupeneit, V. A. - 566 Rykov, V. G. - 258

S

Samsonov, A. M. - 220 Sanchez-Palencia, E. - 1 Savchenko, Yu. E. - 74 Shcherbinin, É. V. - 192, 492 Shekhovtsov, V. I. - 91 Shishko, A. Ya. - 200, 541 Shliomis, M. I. - 58 Shtern, P. G. - 9 Simkhovich, S. L. - 48, 135 Sinel'nikova, A. E. - 103 Sirotenko, V. G. - 555 Slavin, V. S. - 341 Slyusarev, N. M. - 347 Smirnov, V. A. - 276 Soldatenkova, N. A. - 214 Strizhak, V. E. - 141, 249 Suyazov, V. M. - 486 Svido, A. V. - 419 Sviridov, V. G. - 462

Т

Tananaev, A. V. - 424, 541
Tarapov, I. E. - 63
Tatarchenko, É. N. - 562
Terekhin, S. N. - 138
Terekhov, L. P. - 113
Timchenko, N. K. - 276
Tir, L. L. - 419
Tkachenko, A. A. - 288
Tkachenko, V. F. - 36, 161
Tolmach, I. M. - 103, 107, 141, 249
Tol'skii, A. A. - 288
Tolvinskaya, E. V. - 79, 214, 530
Troitskii, S. R. - 141, 249

Tropp, É. A. - 220
Tsebers, A. O. - 52, 315
Tseskis, A. L. - 119, 122
Tsinober, A. B. - 9, 125, 175, 432, 450, 559
Tul'vert, V. F. - 27
Turovskii, B. M. - 273

TT

Ulinich, F. R. - 279 Urvantsev, V. A. - 288 Ushakov, V. V. - 204 Ushakov, Yu. P. - 365, 424

V

Vasil'ev, S. V. - 566 Ved'kalov, I. R. - 288 Veksler, A. S. - 288 Vitola, V. Kh. - 541 Vlasenko, L. G. - 249 Vol'dek, A. I. - 79, 85, 214, 530 Volkov, A. V. - 21, 403 Volkova, T. P. - 270 Voronkov, V. V. - 273

Y

Yakhot, A. O. - 522 Yakovlev, V. S. - 91 Yankauskas, Z. K. - 144 Yantovskii, E. I. - 141, 166, 258 Yatsenko, V. I. - 36 Yavich, V. E. - 347 Yavnaist, G. A. - 187 Yudkin, S. A. - 422

7

Zandart, Ya. Ya. - 249 Zaslavskii, V. M. - 548 Zoler, D. I. - 327 Zvane, G. Ya. - 243

MAGNETOHYDRODYNAMICS

Volume 9, Numbers 1-4, 1973

(A translation of Magnitnaya Gidrodinamika)

Volume 9, Number 1 January-March, 1973

	Eng./F	Russ.
GENERAL AND THEORETICAL PROBLEMS		
Limiting Behavior of a Certain Class of MHD Flows in a Strong Magnetic Field		
- Ch. Hartmann and E. Sanchez-Palencia Experimental Investigation of the Pressure Distribution for Constrained MHD Flow	1	3
Past Cylinders - A. B. Tsinober and P. G. Shtern Effects of a Magnetic Field on a Turbulent Flow with Shear - G. N. Abramovich,	9	12
D. S. Kovner, A. Ya. Kolpakov, and V. G. Lushchik	15	19
The Effects of a Magnetic Field on the Turbulence behind a Grating - A. V. Volkov	21	26
Energy Balance Equation for Turbulent Fluctuations in the Theory of MHD Flows	27	33
in Channels and Tubes - V. F. Tul'vert Motion of a Sphere in a Conducting Liquid under the Influence of Crossed Electric		
and Magnetic Fields – V. I. Merkulov	31	38
V. F. Tkachenko, and V. I. Yatsenko	36	43
V. E. Karyakin, and T. V. Demidova Electrodynamic Flow of a Viscoplastic Fluid – A. M. Makarov, L. K. Martinson,	42	49
V. R. Romanovskii, and S. L. Simkhovich	48	56
and A. O. Tsebers	52	61
Yu. L. Raikher, and M. I. Shliomis	58	68
Flow of a Magnetized Liquid between Parallel Plates - A. B. Isers and I. E. Tarapov. Laminar Stratified Flow of Conducting Fluid in Annular Channels with High MHD Interaction Parameters - A. I. Bertinov, L. K. Kovalev, S. MA. Koneev, and	63	73
V. N. Poltavets Generation of a Magnetosonic Signal by a Pulse of Acoustic Waves in an Anisotropically Conducting Medium - L. P. Gorbachev	68	79
and Yu. E. Savchenko	74	85
ENGINEERING PROBLEMS		
Effect of Gradation of the Linear Load of the End Zones of an Inductor		
on the Longitudinal Edge Effect in Induction Machines - A. I. Vol'dek		
and E. V. Tolvinskaya	79	90
Machines with Lateral Bus Bars - A. I. Vol'dek, A. V. Karasev, A. I. Kienko Investigation of Velocity and Pressure Fields in a Magnetodynamic Pump	. 85	99
-R. K. Gorn, V. P. Polishchuk, V. I. Shekhovtsov, and V. S. Yakovlev	91	105
Efficiency of an Induction MHD Generator with Conductivity Waves - S. S. Katsnel'son Powerful Direct-Current Conduction Pump with an Increased Operating Voltage	98	111
- V. A. Golodnyak, A. E. Sinel'nikova, and I. M. Tolmach	103	117

		Engl./Russ.	
Distribution of Current Density in the Channel of an Alternating-Current Conduction			
Machine - G. M. Gekht and I. M. Tolmach	107	122	
Radial MHD Bearing with a Floating Bushing - I. M. Al'-Nasan and L. P. Terekhov	113	129	
	110		
BRIEF COMMUNICATIONS			
Interaction between a Magnetic Field and a Turbulent Conducting Fluid - A. S. Pleshanov	110	105	
and A. L. Tseskis	119	135	
Two-Dimensional Turbulence in a Magnetic Field - A. S. Pleshanov and A. L. Tseskis	122	137	
Velocity Structure of a Flow in a Magnetic Field Periodically Varying along the Flow	105	100	
- Yu. M. Gel'fgat, D. E. Peterson, and A. B. Tsinober	125	139	
Effect of Crossed Electric and Magnetic Fields on the Oscillations of Liquid-Metal	128	142	
Drops - E. I. Dobychin	132	145	
An Obstacle-Flow Problem in Magnetohydrodynamics - V. I. Legeida	104	149	
Electrohydrodynamic Flow of a Non-Newtonian Fluid in a Circular Pipe	135	148	
- A. M. Makarov, L. K. Martinson, M. R. Romanovskii, and S. L. Simkhovich Effect of Orientation of Particles of a Dispersed Phase of Moving Emulsions	100	140	
on the Conductivity - V. I. Popov and S. N. Terekhin	138	150	
Experimental Investigation of a Liquid-Metal Induction-Type Machine under Pumping	100	130	
Conditions - Yu. A. Bakanov, L. M. Dronnik, M. N. Levin, V. K. Makarevich,			
L. M. Reshet'ko, V. E. Strizhak, I. M. Tolmach, S. R. Troitskii,			
and E. I. Yantovskii	141	153	
The Longitudinal Edge Effect in the Inductor of a Magnetohydrodynamic Machine	111	100	
with a Single Core - V. I. Chesonis and Z. K. Yankauskas	144	155	
Wall a bright core v. 1. Chopolas and 2. 1. Tables and v.			
Volume 9, Number 2 April-June, 1973			
Spatial Magnetohydrodynamic Boundary Layer in an Incompressible Fluid			
- G. M. Bam-Zelikovich	147	3	
Rotation of a Cylinder in a Conductive Fluid in an Axial Magnetic Field			
- S. E. Kuznetsov	155	12	
Investigation of MHD Phenomena in the Flow of a Viscous Conducting Fluid			
in a Traveling Magnetic Field - V. F. Tkachenko	161	.19	
Rotation of an Electrically Conducting Fluid with a Free Surface in a Rotating Field			
- V. A. Boguslavskii, A. I. Él'kin, and E. I. Yantovskii	166	25	
Experimental Investigation of a Rotational MHD Couette Flow in a Coplanar Field			
- M. M. Gurfink	171	31	
Numerical Analysis of Three-Dimensional MHD Flow Problems - Kh. É. Kalis			
and A. B. Tsinober	175	35	
Streams of Conducting Fluid in a Transverse Magnetic Field - V. V. Gnatyuk,			
T. A. Gnatyuk, and K. E. Dzhaugashtin	180	41	
Disintegration of a Free Liquid-Metal Stream Due to an Axial Current - Yu. M. Gel'fgat,			
S. V. Ol'shanskii, and G. A. Yavnaist	187	49	
Electrodynamic Ejector – I. É. Butseniek and É. V. Shcherbinin	192	55	
Oscillatory Magnetohydrodynamic Flows of Viscoplastic Media in Plane Ducts			
- K. B. Pavlov	197	61	
Integral Characteristics of an MHD Duct of Finite Magnetic Reynolds Numbers			
- A. Ya. Shishko	200	65	
Charging of Aerosol Particles in a One-Dimensional Electrogasdynamical Flow			
- V. V. Ushakov and G. M. Franchuk	204	70	
Investigation of Alternating-Current Electrogasdynamic Generator - V. A. Kas'yanov,			
A. A. Mkhitaryan, and V. I. Orlanov.	209	76	
Effect of Longitudinal End Effect on the Operation of Linear Induction Machines			
without Compensating Elements - A. I. Vol'dek, A. A. Mikirtichev,		4	
N. A. Soldatenkova, and E. V. Tolvinskaya	214	82	
Asymptotic Solution of MHD Problem for an Induction Machine, Taking into Consideration the Finite Length of the Stator - A. M. Samsonov and É. A. Tropp	225	-	
Thate Bengin of the Stator - A. M. Samsonov and E. A. Tropp	220	89	

	Eng./R	Eng./Russ.	
Overall Characteristics of an Induction-Type Magnetohydrodynamic Machine with a Flat			
Channel. II. Calculation Results – I. R. Kirillov and I. V. Lavrent'ev Construction of Mechanical Characteristics of Linear Induction Machines	225	95	
with Liquid-Metal Working Substance - V. I. D'yakov and A. N. Frolov Problem of Containment of Large Masses of Liquid Metal by Automatically	229	100	
Controlled Magnetic Field - V. F. Gubarev and E. S. Paslavskii	233	105	
- V. A. Berzin', N. S. Bugrov, Ya. Ya. Klyavin', and A. V. Markov	238	111	
G. Ya. Zvane, and A. S. Petrazhitskii	243	117	
I. M. Tolmach, and S. R. Troitskii	249	124	
- B. V. Chekin, V. V. Boyarenko, and S. I. Eliseikin	254	130	
BRIEF COMMUNICATIONS Flow of a Dielectric Ferromagnetic Suspension in a Rotating Magnetic Field			
- I. Ya. Kagan, V. G. Rykov, and E. I. Yantovskii	258	135	
Some Nonstationary Problems of Magnetic Rheology - I. S. Granik and L. K. Martinson . Magnetohydrodynamic Wake of a Body in a Homogeneous Flow in a Longitudinal	261	138	
Magnetic Field – L. P. Gorbachev, N. V. Nikitin, and E. P. Potanin Forces in a Liquid Metal in a Rotationally Symmetric Field – A. B. Kapusta	264	140	
and I. B. Nosovitskaya	267	142	
- A. B. Kapusta, I. B. Nosovitskaya, and T. P. Volkova	270	145	
- V. V. Voronkov, I. I. Ivanova, and B. M. Turovskii	273	147	
- B. V. Chekin, V. A. Smirnov, and N. K. Timchenko	276	149	
and F. R. Ulinich	279	151	
V. P. Polishchuk, and B. P. Borisov	283	154	
A. É. Mikel'son, and Yu. K. Novikov	285	15	
B. M. Rotmistrovskii, I. S. Repeshko, A. A. Tkachenko, A. A. Tol'skii, and V. A. Urvantsev	288	15	
and V.A. Orvantoev	200	130	
Volume 9, Number 3 July-September, 1973			
Thermomechanics of Ferromagnetic Fluids - V. G. Bashtovoi			
and B. M. Berkovskii	291	:	
Use of Optical Methods in Investigating MHD Processes - A. G. Fedin Particle-Interaction Effects in the Flow of a Ferroliquid in a Magnetic Field	301	1:	
- E. E. Bibik.	. 309	2	
Viscosity of a Finely Divided Suspension of Particles with Cubic Crystal Symmetry in a Magnetic Field – A. O. Tsebers	315	33	
- N. N. Noskov	322	4:	
by a Transmitted Wave - D. I. Zoler and I. Burdujan	327	4	

	Eng./F	Russ.
Generation of Current Eddies in a Moving Plasma with a Sharp Change		
in the Magnetic Field - A. K. Grigoriadi, Yu. P. Emets,		
and A. P. Rashchepkin	332	53
A. A. Kulandin, and V. S. Kirilkin	337	59
Nonstationary Flow of a Stratified Gas in an MHD Generator Channel - V. S. Slavin Investigation of Mixing in a Model of a Lined Crucible in a Alternating Magnetic Field	341	63
A. É. Mikel'son, L. S. Panasyuk, N. M. Slyusarev, and V. E. Yavich Structure of the Magnetic Field and Number of Poles of a Linear Induction Machine	347	71
- V. I. Chesonis	352	76
Problem – A. B. Kapusta and T. S. Litvinova	356	81
and A. S. Petrazhitskii	360	85
in Similarity Criteria - D. S. Kovner and Yu. P. Ushakov	365	90
and S. V. Ol'shanskii	369	95
of Variable Cross Section — Yu. M. Gel'fgat and A. L. Gudkov Determination of the Effective Conductivity of a Metallic Particle in Crossed	376	103
Electric and Magnetic Fields - V. S. Gorovits	383	111
and G. P. Kropachev	390	119
BRIEF COMMUNICATIONS		
Entrainment of a Ferromagnetic Suspension by a Traveling Magnetic Field	395	125
- O. A. Glazov	397	127
Experimental Investigation of Resistance of Tubes with Diaphragms in a Magnetic Field — I. É. Butsenieks.		129
Circular MHD Flow in Crossed Electrical and Magnetic Fields - A. V. Volkov,	400	
M. M. Gurfink, and A. P. Poluéktov	403	132
and Magnetic Fields - L. P. Gorbachev and N. V. Nikitin	405	133
V. G. Lushchik, V. S. Nikolaenko, and I. G. Panevin	409	136
in a Closed Cylindrical Vessel - V. I. Doronin, V. V. Dremov, and A. B. Kapusta. Longitudinal Edge Effect in Three-Phase Linear Asynchronous Machines, Taking Account of Bypassing Current from the Reverse Sides of the Inductors	412	138
- S. A. Bugyanis and V. I. Chesonis	414	140
- G. Grinberg	417	143
Effect of the Geometric Parameters of a Magnetic System on the Motion of a Melt in an Induction Furnace – A. V. Svido and L. L. Tir	419	144
- V. P. Polishchuk and S Yudkin	422	147
of Liquid-Metal Magnetohydrodynamic Machines—G. A. Baranov, V. A. Glukhikh, V. G. Marinov, A. V. Tananaev, and Yu. P. Ushakov	424	148

	Engl./Russ.	
BOOK REVIEWS		
P. M. Kolesnikov, Introduction to Nonlinear Electrodynamics -		
- Reviewed by V. P. Glukhov	428	152
É. V. Shcherbinina, Jet Flows of a Viscous Liquid in a Magnetic Field	431	154
CHRONICLES		
Riga Seminar on Turbulent Magnetohydrodynamic Flows - A. B. Tsinober	432	155
Riga Seminar on Turbulent Magnetohydrodynamic Flows for the 1973/1974 Period	433	155
Mikhail Dmitrievich Millionshchikov - The Editorial Board	434	155
Volume 9, Number 4 October-December, 1973		
,,,,,,,,		
Generation of the Magnetic Field of a Star by Convection in the Outer Region		
- L. É. Gurevich and F. D. Éidel'man	437	3
Theory of the Herzenberg Dynamo - A. Gailitis	445	12
Axisymmetric Magnetohydrodynamic Stokes Flow in a Half-Space - A. B. Tsinober	450	17
Effect of a Longitudinal Magnetic Field on the Statistical Properties of Turbulent		
Temperature Fluctuations in Mercury Flow in a Circular Pipe - L. G. Genin, S. P. Manchkha, and V. G. Sviridov	400	0.1
Investigation of the Shape of a Free Surface and an Analog of the Pinch Effect	462	31
in Magnetic Fluids - B. M. Berkovskii and L. P. Orlov	468	38
Suppression of Hydromagnetic Instabilities in Liquid Metal by an Automatically	400	30
Controlled Magnetic Field - V. F. Gubarev and E. S. Paslavskii	474	45
Approximate Solution of the Equations for a Conducting Viscoplastic Boundary Layer		10
in a Transverse Magnetic Field - E. A. Kosachevskaya	482	55
Magnetohydrodynamics of a Microstructural Medium. The Rheoelectric Effect		
- V. M. Suyazov	486	59
Jet Flows in an Electric Arc - É. V. Shcherbinin	492	66
MHD Instruments and Protective, Monitoring, and Control Equipment		
- A. D. Barinberg, K. P. Donchenko, and V. G. Oleinik	498	73
Three-Dimensional Flows of Liquid and Gas in Annular Channels with Large		-
Parameters of the MHD Interaction - L. K. Kovalev and S. MA. Koneev	507	84
Flectromagnetic Processes in a Plasma Flowing along a Rectangular Channel		
in an External Running Magnetic Field - A. P. Rashchepkin	515	94
Calculation of the Electrical Field in the Channel of an MHD Generator with a Hall Effect by the Method of Images of Vortex-Source Combinations		
- L. P. Poberezhskii and A. O. Yakhot	522	102
Evaluation of the Effect of the Finite Length of the Cores of a Linear Induction	322	102
Machine on Its Longitudinal Edge Effect - A. I. Vol'dek, O.N. Manoilova,		
and E. V. Tolvinskaya	530	111
Conductivity of the Walls in Longitudinal-End-Effect Problems in Induction Channels	000	
- I. R. Kirillov	536	117
Evaluation of the Calibration Error of a Conduction-Type Flowmeter		
- Yu. A. Birzvalk, Yu. V. Bogdanov, V. Kh. Vitola, V. A. Parolya,		
A. V. Tananaev, and A.Ya. Shishko	541	123
Purification of a Liquid from a Ferromagnetic Suspension - R. S. Kuznetskii		
and V. M. Zaslavskii	548	130
Calculation of the Main Electromagnetic Parameters of an Apparatus		
for Ingot Shaping during Continuous Casting - Z. N. Getselev		
and G. I. Martynov	552	135
Effectiveness of MHD Devices in the Production of Mercury - V. G. Sirotenko		
and N. I. Mezentseva	555	139
BRIEF COMMUNICATIONS		
Green's Function for Axisymmetric MHD Stokes Flow in a Half-Space		
- A. B. Tsinober	559	144

	Eng./F	Russ.
Conducting Viscoplastic Boundary Layer in a Transverse Magnetic Field		
with an Exponential Distribution of the Velocity along the External Boundary – E. A. Kosachevskaya and É. N. Tatarchenko	562	146
of Electromagnetic Forces - A. B. Kapusta and I. B. Nosovitskaya	564	148
Calculation of the p(Q) Characteristics of a Linear Induction Pump without Lateral		
Busbars - S. V. Vasil'ev, R. A. Petrovicha, and V. A. Rupeneit	566	150
Determination of the Hydraulic Resistance of the Channel of an MHD Separator		
- V. V. Boyarenko, V. I. Doronin, and B. V. Chekin	567	151
CHRONICLES		
Awarding of the State Prize of the USSR	570	154
INDEX		
Author Index, Volume 9, Numbers 1-4, 1973	573	
Tables of Contents, Volume 9, Number 1-4, 1973	575	